integral™

# ENCRYPTED USB AND SSD

FIPS VALIDATED 140-2

# Introducing integral™

Integral Memory Inc is part of Integral Memory plc, one of the largest digital memory producers in Europe with more than 20 years of sales success.

Integral was founded in London, England during 1989 and quickly became one of Europe's leading DRAM specialists. Over the next two decades Integral expanded its product range as the solid-state flash memory market matured. Integral has long-term partnerships with leading component suppliers including Toshiba, Samsung and Hynix. International sales offices have been established in France, Spain, the Netherlands, the UAE and most recently the United States.

The Integral range includes a cutting-edge Hardware Encrypted SSD and a selection of FIPS 140-2 validated, USB Flash Drives with AES 256-bit encryption; ensuring sensitive data stored on the USB cannot be compromised.

Our passion is to bring you the latest memory products built on quality, reliability and great prices.

**For detailed product information and technical support please visit our website www.integralmemoryusa.com**

### Hardware Encrypted USB Flash Drives and Solid State Drives

USB Flash Drive and Hard Drive security is a challenge facing all IT departments and government bodies.

Integral produce a range of AES 256-bit hardware encrypted USB Flash Drives and SSDs that provide an easy to use, cost effective and highly secure solution that is designed to work with your end-point security.

Our Crypto range is FIPS 197/140-2 validated and all models are zero footprint, so no software installation is required. All files transferred to the drive are automatically encrypted and are protected by a mandatory high-strength password. All Crypto products will securely destroy data safely if the set password attempts are exceeded, protecting your data if lost or stolen.

Crypto Drives are used and trusted worldwide by government departments, global corporations and SME's.

### Dual Password Encrypted USB

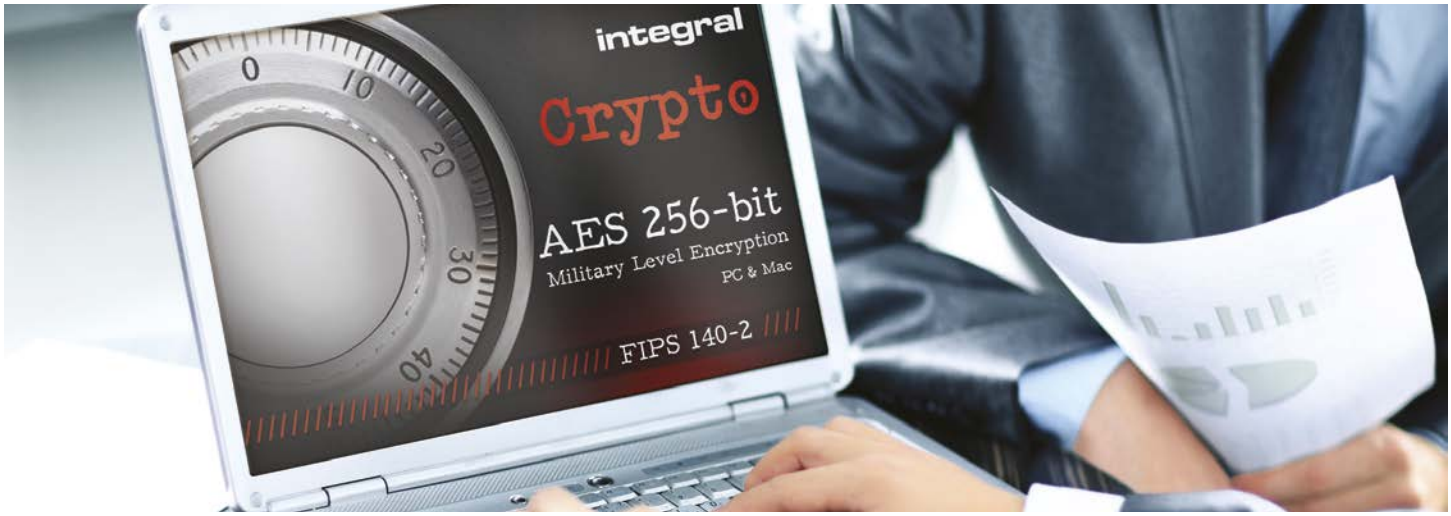
The Integral Crypto Dual and Dual+ encrypted USBs offer an optional master password override, in addition to a high-strength user password. If a user forgets their password, the Crypto Dual and Dual+ drives can be accessed with a master password by an IT administrator.

### Full Disk Encryption SSD

The Integral Crypto SSD is a complete security solution, which combines the strength of 256-bit AES hardware encryption with the speed and durability of Solid State Drive technology. Crypto SSD offers pre-Windows boot password entry and authentication (password authentication is carried out by the hardware).

Total Cost of Ownership is dramatically improved using Crypto SSD:

- No licencing or subscriptions fees or contracts, one-off purchase
- No additional on-going support costs
- Productivity boost - hardware encryption is faster than software encryption and SSDs are faster than traditional HDDs
- Reduced power consumption




## **Crypto Dual** FIPS 140-2 & FIPS 197

- **Dual password / Master password override** in addition to a high-strength user password. If a user forgets their password the Crypto Dual can be accessed with a master password by an IT administrator (optional)
- **Dual OS -** Compatible with both Windows and Mac
- **AES 256-bit hardware encryption**
- **FIPS 140-2/FIPS 197 Validated -** Certificate No. 1821/1137
- **Secure Entry -** Data cannot be accessed without the correct high strength alphanumeric 8-16 character password. A password hint option is available. The password hint cannot match the password
- **Brute-Force Password Attack Protection -** Data is automatically erased after 6 failed access attempts. The data and encryption key are securely destroyed and the Crypto Drive is reset
- **Auto-lock -** The Crypto Drive will automatically encrypt all data and lock when removed from a PC or when the screen saver or "computer lock" function is activated on the host PC
- **Password Entry Count -** The Crypto Drive records the failed entry count. e.g. if the Crypto is removed after 2 failed attempts and reinserted, the drive will resume with the 3rd attempt
- **Personal ID Function -** As an option, contact details can be added to the Crypto that can be viewed without compromising encrypted data
- **Unique number -** The USB pin on each drive is etched with a unique and random 7-digit code. This allows a record to be kept of which drive has been allocated to a specific user
- **Rugged triple-layer waterproof design -** Protects the Crypto Drive against knocks, drops, break-in and submerging in water. The electronics are sealed in epoxy resin and then shielded by a steel inner case. The rubberised silicone outer casing provides a final layer of protection
- **Multi-lingual interface** and a simple user interface for "out of the box" use

*Unique ID available for use with Endpoint software, see page 7*

| Crypto Dual 140-2 | |
|---|---|
| 2GB | INFD2GCRYPTODL140-2 |
| 4GB | INFD4GCRYPTODL140-2 |
| 8GB | INFD8GCRYPTODL140-2 |
| 16GB | INFD16GCRYPTODL140-2 |
| 32GB | INFD32GCRYPTODL140-2 |

| Crypto Dual 197 | |
|---|---|
| 2GB | INFD2GCRYPTODL197 |
| 4GB | INFD4GCRYPTODL197 |
| 8GB | INFD8GCRYPTODL197 |
| 16GB | INFD16GCRYPTODL197 |
| 32GB | INFD32GCRYPTODL197 |

## **Crypto Dual +** FIPS 140-2 & FIPS 197

- Feature set as above
- Expanded design allows for massive storage capacity of 64GB and 128GB
- 4-Channel access for faster read/ write

| Crypto Dual Plus 140-2 | |
|---|---|
| 64GB | INFD64GCRYDLPL140-2 |
| 128GB | INFD128GCRYDLPL140-2 |

| Crypto Dual Plus 197 | |
|---|---|
| 64GB | INFD64GCRYDLPL197 |
| 128GB | INFD128GCRYDLPL197 |

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integralmemory.com/video

# USB - **Hardware Encryption**

## 1 **Crypto Drive** FIPS 140-2

- **AES 256-bit hardware encryption**
- **FIPS 140-2 Level 2 Validated -** Certificate No. 1424
- **Secure Entry -** Data cannot be accessed without the correct high strength alphanumeric 8-16 character password. A password hint option is available. The password hint cannot match the password
- **Brute-Force Password Attack Protection -** Data is automatically erased after 6 failed access attempts. The data and encryption key are securely destroyed and the Crypto Drive is reset
- **Auto-lock -** The Crypto Drive will automatically encrypt all data and lock when removed from a PC or when the screen saver or "computer lock" function is activated on the host PC
- **Password Entry Count -** The Crypto Drive records the failed entry count.
  e.g.. if the Crypto is removed after 2 failed attempts and reinserted, the drive will resume with the 3rd attempt
- **Personal ID Function -** As an option, contact details can be added to the Crypto that can be viewed without compromising encrypted data
- **Unique number -** The USB pin on each drive is etched with a unique and random 7-digit code. This allows a record to be kept of which drive has been allocated to a specific user
- **Rugged triple-layer waterproof design -** Protects the Crypto Drive against knocks, drops, break-in and submerging in water. The electronics are sealed in epoxy resin and then shielded by a steel inner case. The rubberised silicone outer casing provides a final layer of protection
- **Multi-lingual interface** and a simple user interface for "out of the box" use

## 3 **Crypto Drive** FIPS 197

- **AES 256-bit hardware encryption**
- **FIPS 197 Validated** - Certificate No. 1137
- **Secure Entry** - Data cannot be accessed or removed without the correct high strength 8-16 character password
- **Brute-force Password Attack Protection** - Data will be automatically erased after 6 failed access attempts and Drive reset
- **Dual OS -** Compatible with both Windows and Mac
- **Personal ID Function** (optional) - Contact details can be added so that Drive can be returned, whilst confidential data remains secure
- **Zero Footprint** - No software installation required
- **Rugged Waterproof* Design** - Steel inner casing and rubberised outer casing, designed to protect the data if dropped, crushed, submerged in water, or subjected to break-in
- **Multi-lingual interface** and a simple user interface for "out of the box" use

**Up to 4 ft. water; conforms to IEC 60529 IPX8*

*Unique ID available for use with Endpoint software, see page 7*

## 2 **Crypto Drive Mac Edition** FIPS 140-2

- Feature set as above
- Designed for Mac OS X

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### Crypto Drive PC/Mac FIPS140-2

| | *PC FIPS 40-2* | *Mac FIPS 140-2* |
|---|---|---|
| **2GB** | INFD2GCRYPTO140-2 | INFD2GCRYPTOMC140-2 |
| **4GB** | INFD4GCRYPTO140-2 | INFD4GCRYPTOMC140-2 |
| **8GB** | INFD8GCRYPTO140-2 | INFD8GCRYPTOMC140-2 |
| **16GB** | INFD16GCRYPTO140-2 | INFD16GCRYPTOMC140-2 |
| **32GB** | INFD32GCRYPTO140-2 | INFD32GCRYPTOMC140-2 |

## 4 **Crypto Drive Mac Edition** FIPS 197

- Feature set as above (excluding Dual OS)
- Designed for Mac OS X

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### Crypto Drive PC/Mac FIPS 197

| | *PC FIPS197* | *Mac FIPS197* |
|---|---|---|
| **2GB** | INFD2GCRYPTO197 | INFD2GCRYPTOMAC197 |
| **4GB** | INFD4GCRYPTO197 | INFD4GCRYPTOMAC197 |
| **8GB** | INFD8GCRYPTO197 | INFD8GCRYPTOMAC197 |
| **16GB** | INFD16GCRYPTO197 | INFD16GCRYPTOMAC197 |
| **32GB** | INFD32GCRYPTO197 | INFD32GCRYPTOMAC197 |

# Crypto

| Specs | Crypto 140-2 | Crypto 140-2 Mac Edition | Crypto 197 | Crypto 197 Mac Edition | Crypto Dual 197/140-2 | Crypto Dual+ 197/140-2 |
|---|---|---|---|---|---|---|
| | | | | | | |
| **Available Capacities** | 2GB, 4GB, 8GB, 16GB, 32GB | 2GB, 4GB, 8GB, 16GB, 32GB | 2GB, 4GB, 8GB, 16GB, 32GB | 2GB, 4GB, 8GB, 16GB, 32GB | 2GB, 4GB, 8GB, 16GB, 32GB | 64GB, 128GB |
| **AES 256-bit hardware encryption** | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| **FIPS Validation and Certificate number** | FIPS 140-2 Level 2 Certificate No. 1424 | FIPS 140-2 Level 2 Certificate No. 1424 | FIPS 197 Certificate No. 1137 | FIPS 197 Certificate No. 1137 | FIPS 197/140-2 Level 2 Certificate No. 1137/ 1821 | FIPS 197/140-2 Level 2 Certificate No. 1137/ 1821 |
| **Mandatory encryption of all files** | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| **Zero Footprint - No software required** | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| **Compatible with Endpoint security software** | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| **Works on Windows without administrator privileges** | ✓ | - | ✓ | - | ✓ | ✓ |
| **Works on Mac OS X without administrator privileges** | - | ✓ | ✓ | ✓ | ✓ | ✓ |
| **Secure Entry - Password Mandatory** | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| **High-Strength Password Enforcement** | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| **Brute-Force Password Attack Protection** | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| **Auto-Lock** | ✓ | ✓ | ✓ | ✓ | ✓[1] | ✓[1] |
| **Password Entry Count** | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| **Personal ID Function** | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| **Rugged triple-layer waterproof design** | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| **User manual stored on drive** | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| **Multi-lingual interface** | 24 Languages | 6 Languages | 24 Languages | 6 Languages | 26 Languages | 26 Languages |
| **Dual Password** | - | - | - | - | ✓ | ✓ |
| **Dual OS - PC & Mac compatible** | - | - | ✓ | - | ✓ | ✓ |
| **4 Channel access (faster read & write speeds)** | - | - | - | - | - | ✓ |
| **Serial Number Etching** | ✓ | ✓ | available on request | available on request | ✓ | ✓ |

[1] Locks if PC is idle for more than 10 mins

**What is FIPS?**
FIPS (Federal Information Processing Standards) is a US & Canadian certification which is recognised around the world as AES compliant devices that can be utilized by Federal agencies or departments for the purpose of protecting sensitive data.

**What is AES Hardware Encryption?**
AES stands for Advanced Encryption Standard. Many government bodies around the world have adopted this encryption model. Integral Encrypted USB Flash Drives use the highest 256-bit AES encryption key.

*Unique ID available for use with Endpoint software, see page 7*

# Crypto SSD

New **SATA III** Specification

197 FIPS AES Encryption Approved

**FIPS 140-2** Pending

**OPAL Compliant** Specification Available

**Full Disc Encryption with No licensing or subscription fees.**

## Crypto SSD

Crypto SSD is the **Full Disk Encryption** solution for Windows desktops and laptops. Featuring **AES 256-bit Hardware Encryption** so you can encrypt and protect your sensitive data and get the speed, reliability and power benefits of SSD. Once encryption is set, a valid user name and password is required to access the Crypto SSD prior to system boot (before Windows loads).

- **Rugged Design** - The electronics are sealed in tamper-free epoxy resin and then shielded by a metal outer case
- **High-speed Read/Write** - up to 240MB/s
- **Quick Boot** - Using a solid state disk in place of a traditional hard drive can cut your desktop computer or laptop's boot time in half
- **Shockproof** - no moving parts, so a greater resistance to shock and vibration than HDD
- **Ultra-slim form factor (7mm)** - Ideal for the latest slimline laptops, 7mm → 9mm adapter also included
- **Silent operation** - no spin or seek time
- **Low heat** - a more comfortable user experience
- **Low power usage** - laptop battery will last far longer with SSD than HDD
- **Endpoint security software compatible** - The Integral Crypto SSD operates comfortably with endpoint security solutions by using the configurable unique ID feature, which is part of the software
- **OPAL compliant specification available** - please contact sales team for information
- Warranty - 2 Years

Ultra Fast | Low Power Use | Zero Noise | Shockproof

| Crypto SSD SATA III | |
|---|---|
| 64GB | INSSD64GS625M7CR197 |
| 128GB | INSSD128GS625M7CR197 |
| 256GB | INSSD256GS625M7CR197 |
| 512GB | INSSD512GS625M7CR197 |

## Crypto mSATA SSD

Crypto mSATA SSD is the **Full Disk Encryption** solution for small form factor Windows laptops and UltraBooks. Featuring **AES 256-bit Hardware Encryption** so you can encrypt and protect your sensitive data and get the speed, reliability and power benefits of SSD. Once encryption is set, a valid user name and password is required to access the Crypto mSATA SSD prior to system boot (before Windows loads).

- **High-speed Read/Write** - up to 240MB/s
- **Quick Boot** - Using a solid state disk in place of a traditional hard drive can cut your desktop computer or laptop's boot time in half
- **Shockproof** - no moving parts, so a greater resistance to shock and vibration than HDD
- **Silent operation** - no spin or seek time
- **Low heat** - a more comfortable user experience
- **Low power usage** - laptop battery will last far longer with SSD than HDD
- **Endpoint security software compatible** - The Integral Crypto mSATA SSD operates comfortably with endpoint security solutions by using the configurable unique ID feature, which is part of the software
- mSATA form factor with SATA III 6Gbps interface (backwards compatible with SATA 3Gbps and SATA 1.5Gbps)
- Warranty - 2 Years

| Crypto mSATA SSD | |
|---|---|
| 64GB | INSSD64GMSA6MCR197 |
| 128GB | INSSD128GMSA6MCR197 |
| 256GB | INSSD256GMSA6MCR197 |

## Customisation

Customisation Available - Your own serial number etching, Flash Drive and GUI can be customised to suit your brand (subject to minimum order quantities).

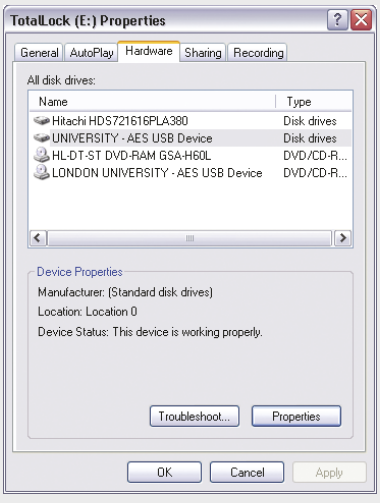
## Unique ID for Endpoint software

The Integral hardware encrypted Flash Drive range can be personalised with a designated company identifying name or number. This will allow a Network Administrator to block access to unrecognised USBs for security purposes, whilst allowing the Integral encrypted Flash Drive to function as the 'official' company drive.

During production a personalised tag (e.g. "UNIVERSITY OF BOSTON") can be embedded into the Crypto that can be viewed on a PC. The tag gives Endpoint software a convenient way to identify Integral drives.

Each drive can be personalized further (upon request) with an individual user specific personal tag e.g "UNIVERSITY OF BOSTON – USER1234" if required.

This personalisation can be offered on any Integral USB Flash Drive (requested at time of order).



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